

Table 4.13  
Cancer of the Female Breast (Invasive)

5-Year Relative and Period Survival (Percent) by Race, Diagnosis Year, Stage and Age

	All Races, Females			White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+
5-Year Relative Survival (Percent)									
Year of Diagnosis:									
1960-1963 <sup>a</sup>	-	-	-	63	-	-	46	-	-
1970-1973 <sup>a</sup>	-	-	-	68	-	-	51	-	-
1975-1977 <sup>b</sup>	74.8	76.5	74.3	75.6	77.8	74.9	62.2	62.4	62.0
1978-1980 <sup>b</sup>	74.4	75.5	74.1	75.1	76.1	74.9	63.4	67.0	61.5
1981-1983 <sup>b</sup>	76.1	77.4	75.7	77.1	78.5	76.7	63.4	65.1	62.6
1984-1986 <sup>b</sup>	79.0	77.8	79.3	80.0	79.5	80.2	65.1	64.0	65.9
1987-1989 <sup>b</sup>	84.0	81.4	85.0	85.1	82.7	85.9	71.1	69.6	71.9
1990-1992 <sup>b</sup>	85.2	83.4	85.9	86.5	85.1	87.0	71.5	70.1	72.4
1993-1995 <sup>b</sup>	86.4	84.3	87.1	87.6	86.2	88.1	72.8	70.5	74.2
1996-1998 <sup>b</sup>	88.2	86.6	88.8	89.4	88.3	89.7	76.2	74.0	77.6
1999-2001 <sup>b</sup>	89.7	88.1	90.3	90.8	89.9	91.1	79.0	77.0	80.2
2002-2004 <sup>b</sup>	90.0	89.3	90.2	91.4	91.1	91.5	77.9	77.6	78.2
2005-2008 <sup>b</sup>	90.8	91.2	90.7	92.1	92.6	92.0	80.3	81.6	79.6
2009-2015 <sup>b</sup>	91.3 <sup>f</sup>	91.1 <sup>f</sup>	91.4 <sup>f</sup>	92.4 <sup>f</sup>	92.4 <sup>f</sup>	92.4 <sup>f</sup>	83.4 <sup>f</sup>	83.3 <sup>f</sup>	83.5 <sup>f</sup>
5-Year Period Survival (Percent) <sup>cd</sup>									
2015	90.0	89.6	90.2	91.0	90.7	91.1	81.8	81.0	82.2
Stage Distribution (%) 2009-2015 <sup>ce</sup>									
All Stages									
Number of cases	350,242	79,150	271,092	275,036	57,813	217,223	39,698	10,672	29,026
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	62	55	65	64	55	66	54	47	57
Regional	30	39	28	29	39	27	35	43	33
Distant	6	5	6	6	5	6	9	8	9
Unstaged/Unknown	2	1	2	1	1	2	2	2	2
5-Year Relative Survival (Percent), 2009-2015 <sup>c</sup>									
Age at Diagnosis:									
Ages <45	88.1	-	-	89.3	-	-	79.0	-	-
Ages 45-54	90.8	-	-	91.9	-	-	82.3	-	-
Ages 55-64	90.5	-	-	91.4	-	-	82.8	-	-
Ages 65-74	91.9	-	-	92.5	-	-	84.8	-	-
Ages 75+	86.3	-	-	87.3	-	-	74.8	-	-
Ages <65	90.1	-	-	91.2	-	-	81.7	-	-
Ages 65+	89.6	-	-	90.3	-	-	80.9	-	-
Stage <sup>e</sup> :									
All Stages	89.9	89.6	90.0	90.8	90.8	90.9	81.5	80.8	81.7
Localized	98.8	97.0	99.3	99.2	97.4	99.7	95.5	94.0	96.0
Regional	85.5	86.9	84.9	86.6	88.3	86.0	77.1	77.9	76.7
Distant	27.4	37.1	24.8	28.6	40.6	25.8	19.7	25.9	17.4
Unstaged/Unknown	54.5	75.1	49.7	52.1	76.2	47.6	49.3	65.5	43.1
<i>In Situ</i> <sup>j</sup>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	100.0

<sup>a</sup> Based on End Results data from a series of hospital registries and one population-based registry.

<sup>b</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

Based on follow-up of patients into 2016. [Expected survival rates](#) are derived from the U.S. Annual Life Tables.

<sup>c</sup> SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG). Expected survival rates are derived from life tables by socio-economic status, geography and race developed by the SEER program.

Based on follow-up of patients into 2016.

<sup>d</sup> Period survival provides a 2015 estimate of survival by piecing together the most recent conditional survival estimates

from several cohorts. It is computed here using three year calendar blocks (2010-2012: 0-1 year survival), (2009-2011: 1-2 year survival), (2008-2010: 2-3 year survival), (2007-2009: 3-4 year survival), (2006-2008: 4-5 years survival).

<sup>e</sup> Stage at diagnosis is classified using SEER Summary Stage 2000. Stage distribution percentages may not sum to 100 due to rounding.

<sup>f</sup> The difference between 1975-1977 and 2009-2015 is statistically significant ( $p < .05$ ).

<sup>g</sup> The standard error is between 5 and 10 percentage points.

<sup>h</sup> The standard error is greater than 10 percentage points.

<sup>j</sup> *In situ* cases are not included in the All Stages group.

- Statistic could not be calculated due to fewer than 25 cases during the time period.